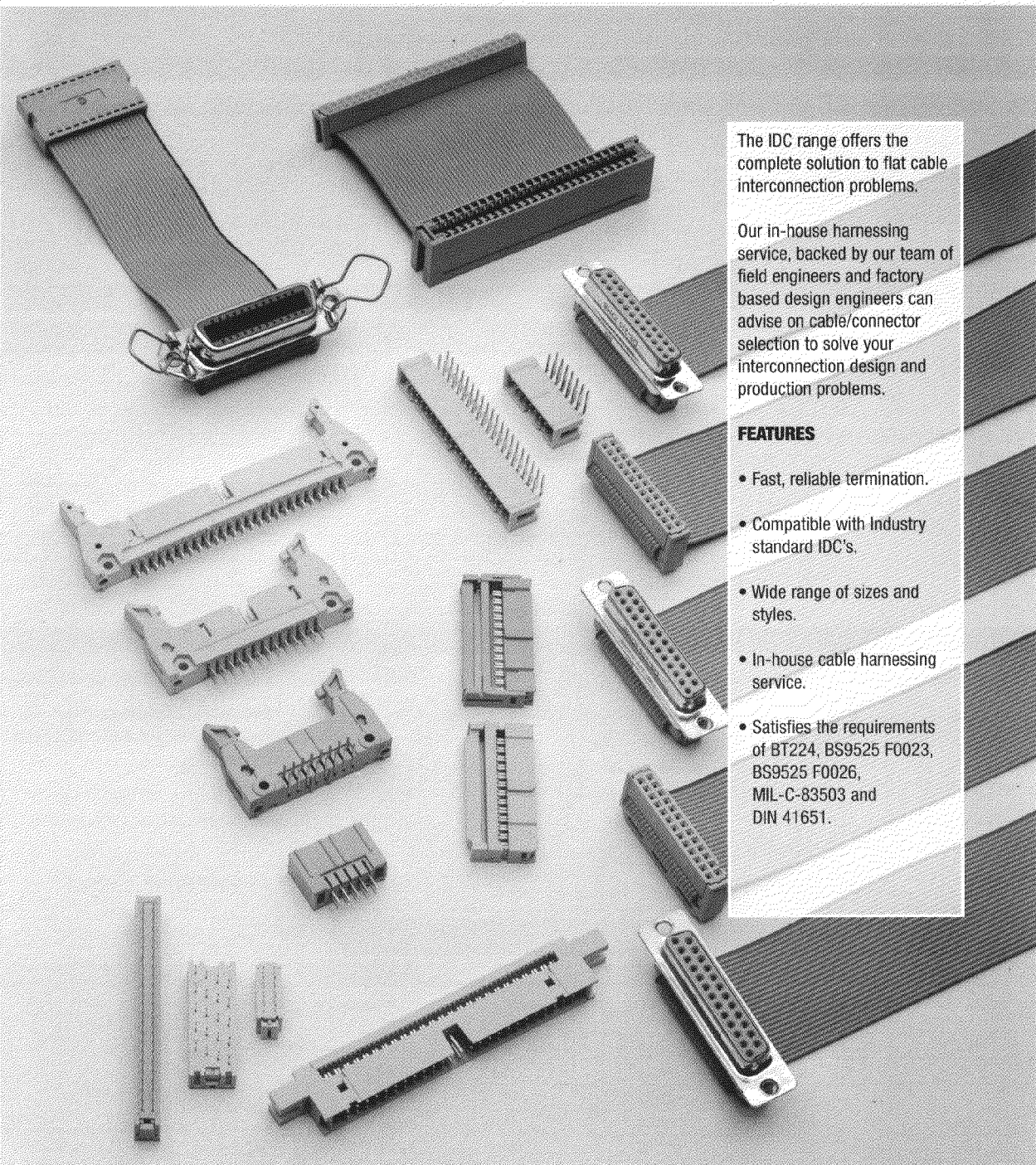
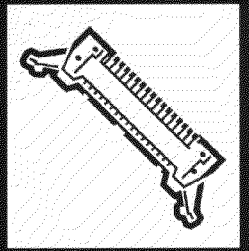


INSULATION DISPLACEMENT CONNECTORS



The IDC range offers the complete solution to flat cable interconnection problems.

Our in-house harnessing service, backed by our team of field engineers and factory based design engineers can advise on cable/connector selection to solve your interconnection design and production problems.

FEATURES

- Fast, reliable termination.
- Compatible with Industry standard IDC's.
- Wide range of sizes and styles.
- In-house cable harnessing service.
- Satisfies the requirements of BT224, BS9525 F0023, BS9525 F0026, MIL-C-83503 and DIN 41651.



ID101, ID104 & ID105 - TECHNICAL DATA

Materials

Insulator	Glass filled thermoplastic, rated UL94V-0.
Contact	Copper alloy plated hard acid gold
Termination	Tin/lead

Mechanical

Mechanical operations	100
Operating temperature	-40°C to + 105°C

Electrical

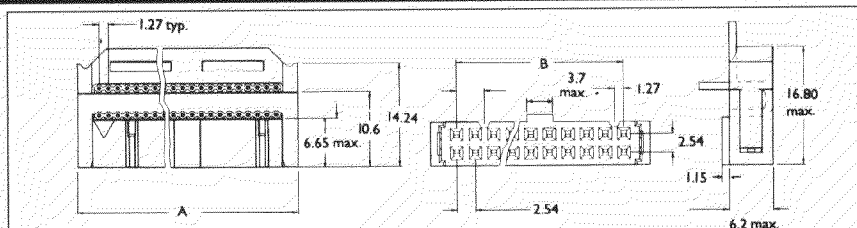
Current	at 60° C Tamb. 1A
Working Voltage	350V d.c. or a.c. peak
Contact Resistance	15mΩ max.
Insulation Resistance	1000MΩ min.

Outline Dimensions

ID101 - Sockets

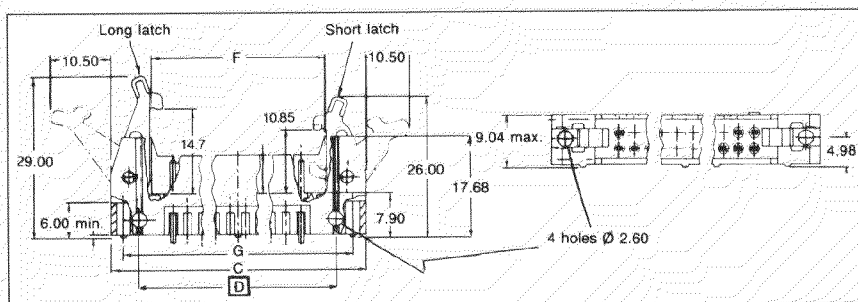
Features

- Compatible with industry standard IDC.
- Optional strain relief.
- Wire accommodation:-
Stranded 26-28 AWG or solid 26-30 AWG conductor ribbon cable.



Contact Arrangement	A (max.)	B
10	17.35	10.16
14	22.43	15.24
16	24.97	17.78
20	30.05	22.86
26	37.67	30.48
34	47.83	40.64
40	55.45	48.26
50	68.15	60.96
60	80.77	73.66
64	85.85	78.74

ID101 - Headers

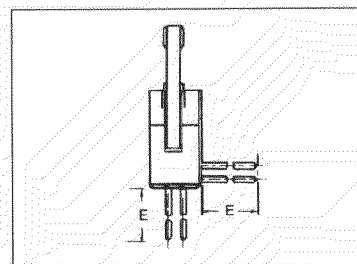


Features

- Three contact termination styles: straight p.c., 90° p.c. and straight wire wrapping.
- Short or long ejector latches for use with sockets, with or without strain relief.
- Polarising keys type 'A' standard.

Contact Arrangement	C (max.)	D	F (min.)	G
10	32.2	21.84	17.91	27.94
14	37.4	26.92	22.99	33.02
16	40.0	29.46	25.53	35.56
20	45.0	34.54	30.61	40.64
26	52.7	42.16	38.23	48.26
34	62.8	52.32	48.39	58.42
40	70.4	59.94	56.01	66.04
50	83.1	72.64	68.71	78.74
60	95.8	85.3	81.41	91.4
64	100.9	90.4	86.49	96.5

Contact Style	p.c. termination	Wire wrapping
Straight	N	W
90°	K	
(E) length	4.0	13.0



ID101, ID104 & ID105 - ORDERING INFORMATION

SERIES	ID101	H	20	K	06*	F	I
HEADER/SOCKET/PLUG							
CONTACT ARRANGEMENT							
HEADER TERMINATION/SOCKET & PLUG VARIANTS							
PLATING							
LATCHING							
HEADER/PLUG ACCESSORIES							

Series

ID101 - Headers and Sockets
 ID104 - IDC Plug
 ID105 - Low Profile Box Header

Header/Socket/Plug

H - Header
 S - Socket
 P - Plug

Contact Arrangement

10, 14, 16, 20, 26, 34, 40, 50, 60 or 64

Header Terminations/Socket & Plug Variants

Terminations for Headers

K - 90° p.c. short
 L - 90° p.c. long (ID105 only)
 N - Straight p.c. short
 T - Straight p.c. long (ID105 only)

Variants for Sockets

A - Without centre key/with strain relief
 B - With centre key/with strain relief
 C - Without centre key/without strain relief
 D - With centre key/without strain relief

Variants for Plugs

E - Without end feet with strain relief
 F - With end feet/with strain relief
 G - Without end feet/without strain relief
 H - With end feet/without strain relief

Plating

06 - Hard acid gold

*Note: Socket part number stops here

Latching

U - No latch or clip supplied
 E - With short latch for use with socket without strain relief (ID101 only)
 F - With long latch for use with socket with strain relief (ID101 only)

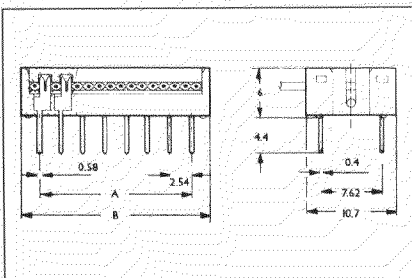
Header/Plug Accessories

I - No fixings supplied

LOW PROFILE D.I.P.

Materials

Moulding Glass filled thermoplastic rated UL94V-0
Contact Copper alloy plated hard acid gold or tin/lead



Electrical

Current 1A
Working Voltage 350V d.c. or a.c. peak
Insulation Resistance 1000MΩ min.
Operating Temperature -40°C to +105°C

Contact Arrangement	A	B
10	10.16	14.4
14	15.24	19.5
16	17.78	22.1

Features

- Suitable for soldering to P.C.B.'s or plugging into DIL sockets.
- Available in 10, 14, 16 contact versions.
- Wire accommodation: 26-28 AWG stranded.

Order codes

- 10 way DC430-10T-*
- 14 way DC430-14T-*
- 16 way DC430-16T-*

* Add T for tin plated contacts, G for gold plated contacts, to end of order code.

TRANSITION CONNECTOR - TECHNICAL DATA

Materials

Insulator Glass filled thermoplastic rated UL94V-0
Contact Copper alloy plated tin

Electrical

Current 1A
Working Voltage 350V d.c. or a.c. peak
Insulation Resistance 1000M Ω min.
Operating temperature -40°C to + 105°C

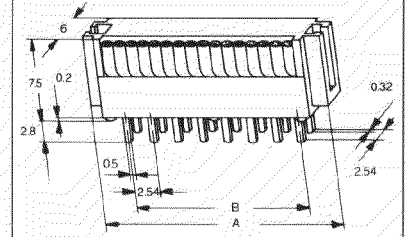
2 Row Transition Connector

Features

- Available with 10,14,16, 20, 26, 34, 40, 50, 60 and 64 contacts.
- Stand off pads to facilitate flux washing and degassing to ensure good solderability.
- Can be used as daisy chain or end type connector.
- Wire accommodation: 26-28 AWG stranded.

Contact Arrangement	A	B
10	17.3	10.16
14	22.4	15.24
16	24.9	17.78
20	30.0	22.86
26	37.6	30.48
34	47.8	40.64
40	55.4	48.26
50	68.1	60.96
60	80.8	73.66
64	85.8	78.74

2 Row



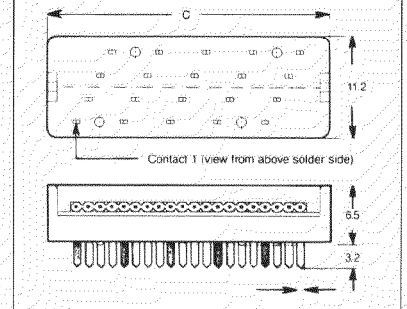
4 Row Transition Connector

Features

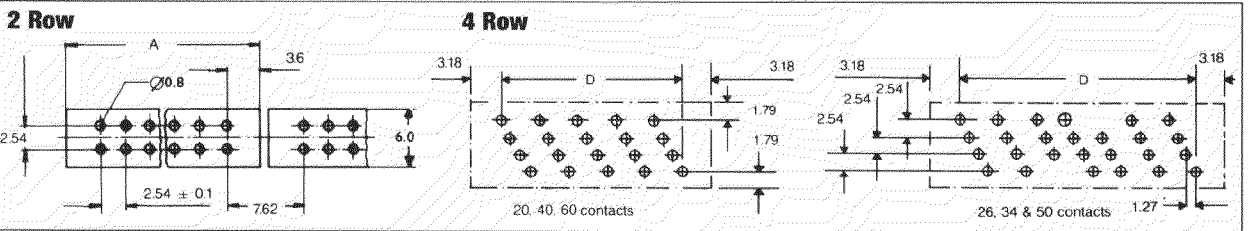
- Available with 10,16,20,26,34, 40, 50 and 60 contacts.
- Fast permanent and economical termination of flat cable to P.C.B.'s.
- Stand off pads to facilitate flux washing and degassing to ensure good solderability.

Contact Arrangement	C	D
10	17.8	11.43
16	25.4	19.05
20	30.5	24.13
26	38.1	31.75
34	48.3	41.91
40	55.9	49.53
50	68.6	62.23
60	81.3	74.93

4 Row



Mounting Details



ORDERING INFORMATION

SERIES _____ **TC434** _____ **34** _____ **N** _____ **T** _____
CONTACT ARRANGEMENT _____
CONTACT STYLE _____
PLATING _____

Series
 TC432-2 row
 TC434-4 row

Contact Style
 N - Straight p.c.

Contact Arrangement
 10, 14*, 16, 20, 26, 34, 40, 50, 60 & 64*
 * 2 row only

Plating
 T - Tin

IDC EDGE CARD CONNECTOR - TECHNICAL DATA

Materials

Insulator	Gas filled thermoplastic rated UL94V-0
Contact	Copper alloy plated hard acid gold
Termination	Tin/lead

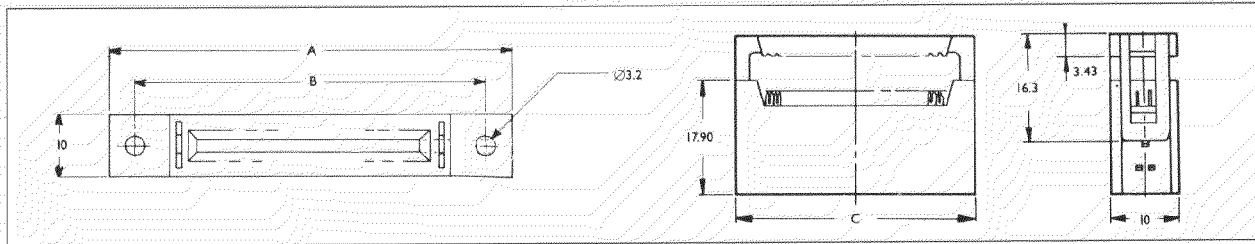
Electrical

Current	1A
Working Voltage	170V d.c. or a.c. peak
Contact Resistance	20mΩ max.
Insulation Resistance	1000MΩ max.
Operating Temperature	-40°C to + 105°C

Features

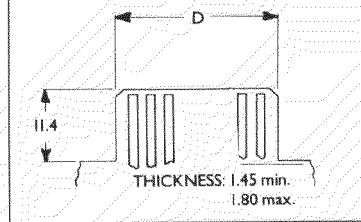
- Available in sizes 20, 26, 34, 40, 50 and 64 contacts.
- Optional mounting ears.
- Wire accommodation:
28 AWG solid and stranded.
- Complete with strain relief.

Outline Dimensions



Contact Arrangement	A	B	C	D
20	60.96	48.26	34.92	27.58
26	68.58	55.88	42.54	35.20
34	78.74	66.04	52.70	45.36
40	86.36	73.66	60.32	52.98
50	99.06	86.36	73.02	65.68
60	107.19	99.06	87.86	78.61

Board cutting details



ORDERING INFORMATION

EC436 40 M G

EDGE CARD CONNECTOR _____

CONTACT ARRANGEMENT _____

MOUNTING _____

PLATING _____

Contact Arrangement

20, 26, 34, 40, 50 & 60

Mounting

M - With mounting ears
A - Without mounting ears

Plating

G - Gold on contact area

IDC D CONNECTOR - TECHNICAL DATA

Materials

Shell (metal IDC only)	Tin plated steel
Insulator	Glass filled thermoplastic rated UL94V-0
Contacts	Copper alloy plated hard acid gold

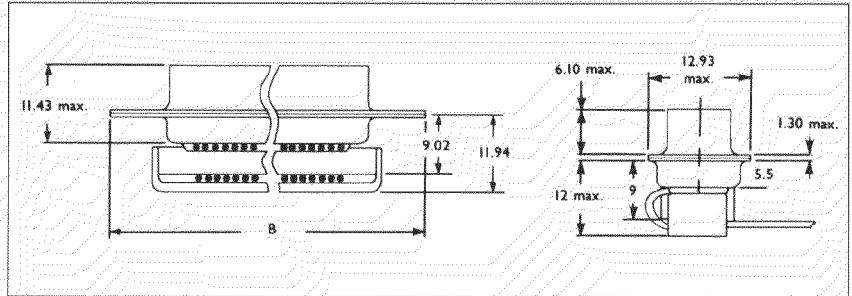
Electrical

Current	at 70°C Tamb. 1A
Working Voltage	350V d.c. or a.c. peak
Insulation Resistance	1000MΩ min.
Operating Temperature	-40°C to + 105°C

Metal IDC D

Features

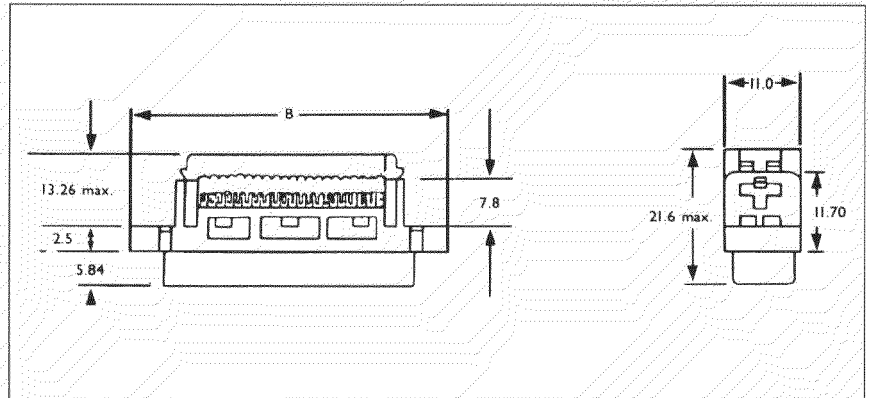
- Tin plated metal shells, plugs are dimpled for electrical continuity.
- Available in 4 sizes 9, 15, 25 and 37 contacts.
- Low profile.
- Wire accommodation 26-28 AWG.
- Complete with strain relief.



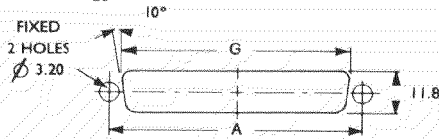
Plastic IDC D

Features

- Available in 4 sizes 9, 15, 25 and 37 contacts.
- Wire accommodation 26-28 AWG.
- Complete with strain relief.



Panel cut-out dimensions (for rear mounting)



Contact Arrangement	A	B		C
	C.R.S.	Metal	Plastic	
9	25.00	31.2	30.8	20.4
15	33.32	39.5	39.1	28.6
25	47.04	53.0	53.0	42.5
37	63.50	69.7	69.4	58.8

ORDERING INFORMATION

Contact Arrangement	Plastic IDC D Order Code		Metal IDC D Order Code	
	Plug	Socket	Plug	Socket
9	SDE9PIDB	SDE9SIDB	DE9PIDMB	DE9SIDMB
15	SDA15PIB	SDA15SIDB	DA15PIDMB	DA15SIDMB
25	SDB25PIDB	SDB25SIDB	DB25PIDMB	DB25SIDMB
37	SDC37PIDB	SDC37SIDB	DC37PIDMB	DC37SIDMB

IDC DIN 41612 - TECHNICAL DATA

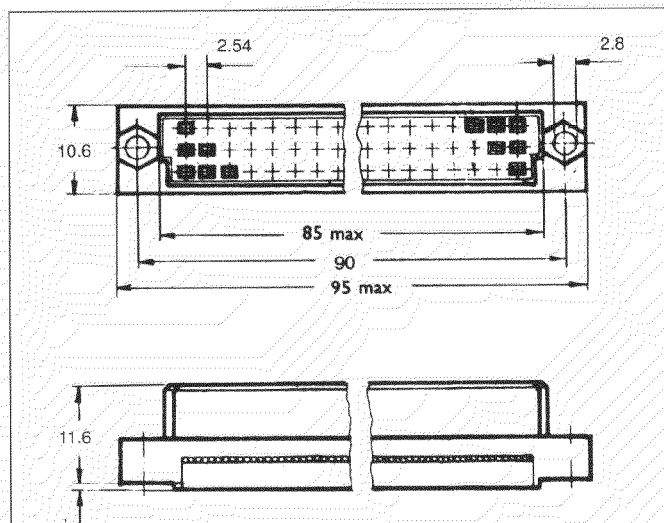
Materials

Insulator	Glass filled thermoplastic rated UL94V-0
Contact	Copper alloy plated hard acid gold

Electrical

Contact	at 70°C Tamb. 1A
Working Voltage	350V d.c. or a.c. peak
Contact Resistance	10mΩ min.
Insulation Resistance	1000MΩ min.
Operating temperature	-40°C to + 105°C

Outline Dimensions



Features

- Available in 64 way contact version: full size 3 row moulding, rows a and c loaded.
- Optional strain relief.
- Mates with industry standard DIN 41612 connectors.
- Wire accommodation 26-28 A.W.G. solid & stranded.
- **Order code:-**
64 contacts - **TP100-96-S-U-12-SG**
strain relief - **TP100-SR**

IDC TOOLING

Connector Range	Order Code
IDC Bench Press	IDP1
Platen Set for:	
ID101 Socket	P101
TC432-2 row transition	"
TC434-4 row transition	"
DC430-Low profile DIP	"
DIN 41612	P158

Assembly tooling for the complete range of IDC connectors is available in the form of an IDC press and individual platen sets for each of the connector ranges.

McMurdo

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As we constantly strive to improve McMurdo products, all specifications are subject to change without notice.

IDC/03/98